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Introduction

! **CAUTION**: The following general safety notes are supplemented by specific descriptions in the TS2000 manual.

All safety instructions must be observed in the performance of work and tests. In addition, please comply with prescribed country specific requirements (e.g. occupational safety and accident prevention regulations).

WARNING!

This section is intended only for trained service personnel

Changes Made in Products

TS2000 may NOT be changed, modified or otherwise altered except according to written instructions provided by the manufacturer.

This regulation applies in particular to changes that may affect the mechanical and/or electrical safety of a product.

Electrical Installations

Electrical installations for medically used rooms in the Federal Republic of Germany must be in accordance with the requirements of VDE Regulations 0107.

For all other countries, the regulations must be in accord with national regulations.

Installation of Electromedical Systems and Equipment

All work must be carried out in accordance with the technical documentation.

Make sure that all **protective ground wires** provided by the manufacturer are connected properly before starting the equipment after installation. This applies, for example, to all metallic covers that may develop a dangerous contact voltage in case of a fault. They must always be connected to the

protective ground wire. To ensure this, the connection between these covers and the protective ground wire must be made with screws and contact washer or via the protective ground wires provided.

The protective ground wires must be connected between the system components and the power supply as shown in the wiring diagram.

In the interest of protection from electrical shock, the protective ground wires must be installed prior to first switching on the product/system, as well as after completing all work, before turnover to the customer, in accordance with the product documentation.

Personal Protection Measures (Occupational Safety)

The legally relevant and internal regulations and specifications concerning protection of labor and accident prevention must be observed, primarily in the interest of the persons performing the work. The notes below are given as additional information.

Working with High Voltage

No work must be performed on current carrying parts (> 50 VAC or 120 VDC).

The system must be de-energized by means of the Main Power Switch.

This prohibition does not apply for measuring and adjustment procedures. Please take extra care when performing these procedures. Use only the tools and measuring instruments suitable for the respective procedure.

Test and adjustment points must be accessible without any risk of injury for the personnel. If this is not possible, switch off the system.

If the voltage must be applied during an operation, please observe extra care. De-energize the unit immediately afterwards.

Body Protectors

If there is any risk of injury, body protectors must be used. It is essential to observe the notes given in the documentation.

Mandatory Reporting

The supervisor in charge must be notified at once in the event of an accident or

if there are any hazards which may cause an accident.

Screw Connections

All existing screw connections must be tightened firmly, but they must not be overstressed when tightened.

> **! CAUTION:** All screws must be secured. If glue has to be used to secure screws, an indication is stated in the text.

Protection of Electrostatically Sensitive Devices

Integrated circuits and PC boards, which are equipped with electronic modules, require careful handling because of their high sensitivity to electrostatic discharge, due to their extremely high input impedances.

Before touching any module, board or any other electrical component, discharge yourself by touching a grounded part of the system. Use only antistatic bags for delivery of electronic parts.

Handling Heavy Loads

Apart from wearing the required protective clothing, e.g. safety boots and gloves, care must be taken that heavy loads are correctly lifted/carried to avoid injury (e.g. injuring the spine).

Please comply with relevant instructions and methods for lifting or carrying heavy objects. Heavy or awkward loads must be moved by mechanical means or by several persons.

Handling Hazardous Substances

Hazardous substances are designated as materials which can ignite or explode, or which are toxic, injurious to health, corrosive or irritating.

Never the less, No hazardous materials are in use or associated with the TS2000 system.